

APPENDIX A

39. An isolated nucleic acid molecule comprising the nucleotide sequence set forth in SEQ ID NO:1, or a full complement thereof.

40. An isolated nucleic acid molecule consisting of the nucleotide sequence set forth in SEQ ID NO:1, or a full complement thereof.

41. An isolated nucleic acid molecule which encodes a polypeptide comprising the amino acid sequence set forth in SEQ ID NO:2, or a full complement thereof.

42. An isolated nucleic acid molecule which encodes a polypeptide consisting of the amino acid sequence set forth in SEQ ID NO:2, or a full complement thereof.

45. An isolated nucleic acid molecule comprising a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a full complement thereof.

46. An isolated nucleic acid molecule consisting of a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a full complement thereof.

47. An isolated nucleic acid molecule comprising a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a complement thereof, wherein said nucleotide sequence encodes a polypeptide which is capable of modulating the production of a fine chemical.

48. An isolated nucleic acid molecule consisting of a nucleotide sequence which is at least 90% identical to the nucleotide sequence of SEQ ID NO:1, or a full complement thereof, wherein said nucleotide sequence encodes a polypeptide which is capable of modulating the production of a fine chemical.

49. An isolated nucleic acid molecule comprising a fragment of at least 30 contiguous nucleotides of the nucleic acid sequence of SEQ ID NO:1, or a full complement thereof.

50. An isolated nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:2.

51. An isolated nucleic acid molecule which encodes a polypeptide consisting of an amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:2.

52. An isolated nucleic acid molecule which encodes a polypeptide comprising an amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:2 wherein said polypeptide is a MCP polypeptide and wherein said polypeptide is capable of modulating the production of a fine chemical.

53. An isolated nucleic acid molecule which encodes a polypeptide consisting of an amino acid sequence at least 90% identical to the amino acid sequence of SEQ ID NO:2, wherein said polypeptide is a MCP polypeptide and wherein said polypeptide is capable of modulating the production of a fine chemical.

54. An isolated nucleic acid molecule comprising the nucleic acid molecule of any one of claims 39-42, and a nucleotide sequence encoding a heterologous polypeptide.

55. A vector comprising the nucleic acid molecule of any one of claims 39-42.

56. The vector of claim 55, which is an expression vector.

57. A host cell transfected with the expression vector of claim 56.

58. The host cell of claim 57, wherein said cell is a bacterial cell.

59. The host cell of claim 58, wherein said cell belongs to the genus *Corynebacterium* or *Brevibacterium*.

60. The host cell of claim 59, wherein the expression of said nucleic acid molecule results in the modulation in production of a fine chemical from said cell.

61. The host cell of claim 60, wherein said fine chemical is selected from the group consisting of: organic acids, proteinogenic and nonproteinogenic amino acids, purine and pyrimidine bases, nucleosides, nucleotides, lipids, saturated and unsaturated fatty acids, diols, carbohydrates, aromatic compounds, vitamins, cofactors, polyketides, and enzymes.